25X1A9a [redacted]

R 1333

25X1A2d2

REQUEST FOR SYSTEM 21 TEST FLIGHT PLAN

1. Previous discussion concluded that the flight test of System 21 should involve two flights on 14 and 16 February. This is a request for a flight test plan which will meet the objectives stated herein.

25X1D0d

25X1D0d

2. System 21 [redacted]

25X1D0d

25X1A5a2 [redacted] For the flight test a [redacted] recorder will accept audio output from the various receivers. Data processing following the flight test must be accomplished on a single channel basis. Therefore, at least a day should be available for this between flights.

3. The objectives of the flight test are to verify that the receiver-recorder system will operate as predicted in the A/C flight environment and to obtain some indication of coverage capability of the system.

4. It is suggested that the first flight be made with the band elimination filter as a general checkout of the system. The filter could

be removed from the system for the second flight and several of the receivers tuned to VOR beacons. Recordings during maneuvers relative to the beacons should indicate the coverage of the system.

5. The following program is requested for the first flight:

a. Climb to altitude.

b. Cruise at altitude for approximately one hour to cold soak equipment.

c. Turn on System 21. Mark position and time on map.

d. Fly a course for at least one half hour (one hour preferred) which passes as closely as possible to emitters as listed below.

e. Turn off System 21 and descend.

Frequency

25X1D0f

[redacted]

It is requested that the flight path be such that as many as possible of the above emitters are within 300 miles of the A/C during the "on" time of

System 21. Also, it is requested that the flight "on" time occur during expected peaks of activity of the above emitters.

6. The following program is requested for the second flight:

a. Climb to altitude.

b. Cruise for one hour for cold soak.

c. Turn on System 21. Mark position and time at turn on.

d. Fly a course including each of the maneuvers (or their equivalent) shown on the attachment.

e. Turn off equipment.

f. Descend.

It is requested that the pilot mark the time of initiation of each maneuver. The following VOR's may be used:

Frequency	Emitter Location
25X1D0f	[redacted] 25X1D0f

For the longer range maneuvers, it is suggested that [redacted] be used as VOR because of its higher power.